: TENT COOPERATION TREAT. Y

	From the INTERNATIONAL BUREAU			
PCT	То:			
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE			
Date of mailing (day/month/year) 12 September 2000 (12.09.00)	in its capacity as elected Office			
International application No. PCT/GB00/00123	Applicant's or agent's file reference MGH/JM/P10338PC			
International filing date (day/month/year) 19 January 2000 (19.01.00)	Priority date (day/month/year) 19 January 1999 (19.01.99)			
Applicant FOSTER, Peter, Reynolds et al				
in the demand filed with the International Preliminary Examining Authority on: 03 August 2000 (03.08.00) in a notice effecting later election filed with the International Bureau on: 7. The election X was was not was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Pascal Piriou Telephone No.: (41-22) 338.83.38			

Form PCT/IB/331 (July 1992)

GB0000123

PCT

REC'D 2 4 APR 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

14

Applicant's or agent's file reference		
MGH/HS/P10338PC	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/monti	//year) Priority date (day/month/year)
PCT/GB00/00123	19/01/2000	19/01/1999
International Patent Classification (IPC) or na A61L2/02 Applicant COMMON SERVICES AGENCY et		
and is transmitted to the applicant a 2. This REPORT consists of a total of This report is also accompanie been amended and are the bas	according to Article 36. 6 sheets, including this cover so d by ANNEXES, i.e. sheets of the sis for this report and/or sheets of or of the Administrative Instruction	e description, claims and/or drawings which have ontaining rectifications made before this Authority
3. This report contains indications rela I Basis of the report II Priority III Non-establishment of o		entive step and industrial applicability
IV ☐ Lack of unity of invention		entive step and industrial applicability
V 🛛 Reasoned statement ur		ovelty, inventive step or industrial applicability;
VI 🗵 Certain documents cite		
VII		
VIII ⊠ Certain observations or	the international application	
Date of submission of the demand	Date of c	ompletion of this report
03/08/2000	20.04.20	D1
Name and mailing address of the international preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656	Marem	ESTATION CONTRACTION OF THE PROPERTY OF THE PR

Telephone No. +49 89 2399 8440

Fax: +49 89 2399 - 4465

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00123

	Ra	sis of the report				
	. Wi	With regard to the elements of the international application (Replacement sheets which have been furnished to				
	the an	the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:				
	1-1	15	as originally filed			
	Cla	aims, No.:				
	1-1	4	as originally filed			
2.	Wit lan	th regard to the lang guage in which the ir	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.			
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:			
		the language of a to	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).			
☐ the language of publication of the international application (under Rule 48.3(b)).						
		the language of a ti 55.2 and/or 55.3).	anslation furnished for the purposes of international preliminary examination (under Rule			
3.	Witi inte	h regard to any nucl rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inte	ernational application in written form.			
	filed together with the international application in computer readable form.					
		furnished subseque	ently to this Authority in written form.			
		furnished subseque	ently to this Authority in computer readable form.			
		☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.			
١.	The	amendments have i	resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

5.

This report has been established as if (some of) the amendments had not been made, since they have been

considered to go beyond the disclosure as filed (Rule 70.2(c)):

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 4-6,10,13

No:

Claims 1-3,7-9,11,12,14

Inventive step (IS)

Yes: No: Claims NONE Claims 1-14

Industrial applicability (IA)

Yes:

Claims 1-14

No:

Claims NONE

2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

. see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: EP-A-0 798 003 cited in the application

D2: Hou K. et al: 'Capture of latex beads, bacteria, endotoxin, and viruses by charge-modified filters', APPLIED AND ENVIRONMENTAL MICROBIOLOGY, US, WASHINGTON, DC, vol. 40, no. 5, 1 November 1980 (1980-11-01), pages 892-896, XP002057339 ISSN: 0099-2240.

D3: WO 96 05846 A D4: GB-A-2 045 828

1.1 The present application does not meet the requirements of the PCT, because the subject-matter of independent claim 1 is not novel in the sense of Article 33(2) PCT. Indeed, document D1 discloses a method of removal of viruses from an aqueous liquid containing proteins, which method comprises the step of passing said liquid through a depth filter formed of a matrix comprising a porous element having a pore size ranging from 0.25 to 2 µm (cf. claims 1, 2 and 5). Additionally, the method disclosed in D1 is regarded as to be suitable for the removal of infective prion proteins associated with transmissible spongiform encephalopathies. Therefore, all features mentioned in claim 1 are disclosed in D1.

It should be noted that all features mentioned in claim 1 are also known from document D2 (cf. abstract, paragraph 'Material and Methods' on p. 892), which, hence, anticipates claim 1, as well.

1.2 Independent claim 14 is formulated as a product-by-process claim. Indeed, it concerns any liquid which has been subjected to prion removal according to the method of anyone of claims 1-13. No indication is given about the intrinsic features of the claimed product. Such a product-by-process formulation is only admissible if the product as such is novel and inventive over the available, known products and if it cannot be defined in any other way, i.e. by means of its intrinsic features. This is clearly not the case here with the present application, where the

EXAMINATION REPORT - SEPARATE SHEET

claimed product is, in fact, any liquid from which prions have been removed, i.e. also simply water. Additionally, prion removal is disclosed, for example, in document D3, which describes, in particular, a process for the removal of infected prions associated with transmissible spongiform encephalopathies (cf. claims 1 and 2). Hence, no difference can be seen between the liquid claimed in claim 14 and the product obtained by the process of D3. Therefore, the subject-matter of independent claim 14 is not novel in the sense of Article 33(2) PCT.

- 2. Dependent claims 2-13 do not appear to contain any additional feature which, in combination with the features of any claim to which they refer, meets the requirements of the PCT with respect to novelty and inventive step (Articles 33(2) and (3) PCT). Indeed, the features mentioned in claims 2, 3, 7-9, 11 and 12 are known from D1 and D2 (cf. D1: claims 1, 2 and 5, p. 3, I. 26-27 and I. 59; D2: paragraph 'Filters' on p. 892 and Table 4 on p. 894). The features mentioned in the remaining claims are regarded as obvious design possibilities for a person skilled in the art of liquid filtration (cf. for example D4: claims 8 and 9).
- 3. The subject-matter of all claims is regarded as to be industrially applicable (Articles 33(4) PCT).

Re Item VI

Certain cited documents

Certain published documents (Rule 70.10)

The priority of the present application was not checked. If the priority were not valid then the document: Foster P.R.: 'Assessment of the potential of plasma fractionation processes to remove causative agents of transmissible spongiform encephalopathy.' TRANSFUSION MEDICINE, (1999 MAR) 9 (1) 3-14. REF: 60, XP000904838, would become relevant as far as novelty and inventive step are concerned.

Re Item VIII

Certain observations on the international application

According to the description, examples 2 and 3 on p. 11 and 12 represent 1.

comparative tests, i.e. they are not expressing the method of the invention. Nevertheless, the methods adopted in these examples comprise the step of passing a liquid containing infective prions through a depth filter, the composition and porosity of which are clearly the same as in the method claimed in claim 1 (see Table 1 on p. 14). In other words, the methods reported in examples 2 and 3 fall within the scope of independent claim 1. Since, according to the description (see p. 12, I. 2-4 and 18-20) the methods of examples 2 and 3 are not able to solve the problem of the invention (they do not remove prions), then the protection of claim 1 is extended also to embodiments that are not able to perform the invention. It seems, therefore, that some essential features are missing in claim 1 (Article 6 PCT).

- 2. In independent claim 1, the term "natural product" is so vague and general to actually include every existing substance. According to the description (see in particular examples 1 and 4), the claimed method is indeed specifically applied to aqueous liquids containing active proteins and blood plasma products. Therefore, claim 1 should have been restricted to the treatment of the above-mentioned liquids by including the features revealed in claims 11 and 12 (Article 6 PCT).
- 3. According to the description (see p. 6, I. 18-21), the use of a charged material within the filter may contribute to the reduction of the activity of the protein contained in the liquid to be treated. This appears to be in contradiction with the teaching of D1, where it is clearly stated that the use of a charged depth filter does not adversely affect the protein activity (cf. claim 1).



From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To

McCALLUM, William P CRUIKSHANK & FAIRWEATHER 19 Royal Exchange Square Glasgow G1 3AE GRANDE BRETAGNE

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)

20.04.2001

Applicant's or agent's file reference

MGH/HS/P10338PC
International application No.

PCT/GB00/00123

International filing date (day/month/year)

19/01/2000

Priority date (day/month/year)

IMPORTANT NOTIFICATION

19/01/1999

Applicant

COMMON SERVICES AGENCY et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

European Patent Office D-80298 Munich

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Fax: +49 89 2399 - 4465

Ipinazar, P

Tel.+49 89 2399-8131



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MGH/HS/P10338PC		COD CHOTHED ACTION	ee Notification of Transmittal of International reliminary Examination Report (Form PCT/IPEA/416)	
Internation	nal application No.	International filing date (day/month/yea	r) Priority date (day/month/year)	
PCT/GB00/00123		19/01/2000	19/01/1999	
Internation A61L2/0	nal Patent Classification (IPC) or 12	national classification and IPC		
Applicant COMMC	ON SERVICES AGENCY 6	et al.		
	international preliminary exa s transmitted to the applican		this International Preliminary Examining Authority	
2. This	REPORT consists of a total of	of 6 sheets, including this cover sheet.		
t	een amended and are the b		scription, claims and/or drawings which have lining rectifications made before this Authority under the PCT).	
Thes	e annexes consist of a total o	of sheets.		
3. This	report contains indications re	lating to the following items:		
1	☑ Basis of the report			
II	☐ Priority			
IH		opinion with regard to novelty, inventive	e step and industrial applicability	
IV	Lack of unity of invent	1		
V	Reasoned statement citations and explanal	under Article 35(2) with regard to nove ions suporting such statement	Ity, inventive step or industrial applicability;	
VI	☑ Certain documents ci			
VII	☐ Certain defects in the	international application		
VIII	☑ Certain observations	on the international application		
Date of sub	mission of the demand	Date of compl	letion of this report	
03/08/20	00	20.04.2001		
	nailing address of the internation examining authority: European Patent Office	al Authorized off	ilcer	
<u>)</u>))	D-80298 Munich	Maremonti,	M (89 9) 669	
	Tel. +49 89 2399 - 0 Tx: 52365 Fax: +49 89 2399 - 4465	•	. +49 89 2399 8440	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis of the rep rt

International application No. PCT/GB00/00123

1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:				
	1-15	as originally filed			
	Claims, No.:				

	Cla	aims, No.:	•
	1-1	4	as originally filed
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:
		the language of a tr	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pul	plication of the international application (under Rule 48.3(b)).
		the language of a to 55.2 and/or 55.3).	anslation furnished for the purposes of international preliminary examination (under Rule
3.			eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	ernational application in written form.
		filed together with the	ne international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
			the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

5.
This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB00/00123

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: No:

Claims 4-6,10,13

Claims 1-3,7-9,11,12,14

Inventive step (IS)

Yes:

Claims NONE

No: Claims 1-14

Industrial applicability (IA)

Claims 1-14

Yes: No:

Claims NONE

2. Citations and explanations see separate sheet

Vi. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

- 2. Non-written disclosures (Rule 70.9)
 - s e separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

separate sheet

R It m V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: EP-A-0 798 003 cited in the application

D2: Hou K. et al: 'Capture of latex beads, bacteria, endotoxin, and viruses by charge-modified filters', APPLIED AND ENVIRONMENTAL MICROBIOLOGY, US, WASHINGTON, DC, vol. 40, no. 5, 1 November 1980 (1980-11-01), pages 892-896, XP002057339 ISSN: 0099-2240.

D3: WO 96 05846 A D4: GB-A-2 045 828

1.1 The present application does not meet the requirements of the PCT, because the subject-matter of independent claim 1 is not novel in the sense of Article 33(2) PCT. Indeed, document D1 discloses a method of removal of viruses from an aqueous liquid containing proteins, which method comprises the step of passing said liquid through a depth filter formed of a matrix comprising a porous element having a pore size ranging from 0.25 to 2 µm (cf. claims 1, 2 and 5). Additionally, the method disclosed in D1 is regarded as to be suitable for the removal of infective prion proteins associated with transmissible spongiform encephalopathies. Therefore, all features mentioned in claim 1 are disclosed in D1.

It should be noted that all features mentioned in claim 1 are also known from document D2 (cf. abstract, paragraph 'Material and Methods' on p. 892), which, hence, anticipates claim 1, as well.

1.2 Independent claim 14 is formulated as a product-by-process claim. Indeed, it concerns any liquid which has been subjected to prion removal according to the method of anyone of claims 1-13. No indication is given about the intrinsic features of the claimed product. Such a product-by-process formulation is only admissible if the product as such is novel and inventive over the available, known products and if it cannot be defined in any other way, i.e. by means of its intrinsic features. This is clearly not the case here with the present application, where the

claimed product is, in fact, any liquid from which prions have been removed, i.e. also simply water. Additionally, prion removal is disclosed, for example, in document D3, which describes, in particular, a process for the removal of infected prions associated with transmissible spongiform encephalopathies (cf. claims 1 and 2). Hence, no difference can be seen between the liquid claimed in claim 14 and the product obtained by the process of D3. Therefore, the subject-matter of independent claim 14 is not novel in the sense of Article 33(2) PCT.

- 2. Dependent claims 2-13 do not appear to contain any additional feature which, in combination with the features of any claim to which they refer, meets the requirements of the PCT with respect to novelty and inventive step (Articles 33(2) and (3) PCT). Indeed, the features mentioned in claims 2, 3, 7-9, 11 and 12 are known from D1 and D2 (cf. D1: claims 1, 2 and 5, p. 3, I. 26-27 and I. 59; D2: paragraph 'Filters' on p. 892 and Table 4 on p. 894). The features mentioned in the remaining claims are regarded as obvious design possibilities for a person skilled in the art of liquid filtration (cf. for example D4: claims 8 and 9).
- 3. The subject-matter of all claims is regarded as to be industrially applicable (Articles 33(4) PCT).

Re Item VI

Certain cited documents

Certain published documents (Rule 70.10)

The priority of the present application was not checked. If the priority were not valid then the document: Foster P.R.: 'Assessment of the potential of plasma fractionation processes to remove causative agents of transmissible spongiform encephalopathy.' TRANSFUSION MEDICINE, (1999 MAR) 9 (1) 3-14. REF: 60, XP000904838, would become relevant as far as novelty and inventive step are concerned.

Re Item VIII

Certain observations on the international application

1. According to the description, examples 2 and 3 on p. 11 and 12 represent ij

comparative tests, i.e. they are not expressing the method of the invention. Nevertheless, the methods adopted in these examples comprise the step of passing a liquid containing infective prions through a depth filter, the composition and porosity of which are clearly the same as in the method claimed in claim 1 (see Table 1 on p. 14). In other words, the methods reported in examples 2 and 3 fall within the scope of independent claim 1. Since, according to the description (see p. 12, I. 2-4 and 18-20) the methods of examples 2 and 3 are not able to solve the problem of the invention (they do not remove prions), then the protection of claim 1 is extended also to embodiments that are not able to perform the invention. It seems, therefore, that some essential features are missing in claim 1 (Article 6 PCT).

- 2. In independent claim 1, the term "natural product" is so vague and general to actually include every existing substance. According to the description (see in particular examples 1 and 4), the claimed method is indeed specifically applied to aqueous liquids containing active proteins and blood plasma products. Therefore, claim 1 should have been restricted to the treatment of the above-mentioned liquids by including the features revealed in claims 11 and 12 (Article 6 PCT).
- 3. According to the description (see p. 6, l. 18-21), the use of a charged material within the filter may contribute to the reduction of the activity of the protein contained in the liquid to be treated. This appears to be in contradiction with the teaching of D1, where it is clearly stated that the use of a charged depth filter does not adversely affect the protein activity (cf. claim 1).

PCT	For a	receiving Office use o	only
•	International Application	ı No.	
REQUEST			
1420231	International Filing Date		
The undersigned requests that the present international application be processed			•
according to the Patent Cooperation Treaty.	Name of receiving Office	and "PCT Internation	"noiteation"
	Applicant's or agent's fil (if desired) (12 characters		M/P10338PC
Box No. 1 TITLE OF INVENTION	-		
TREATING PROTEIN-CONTAINING	LIQUIDS		
Box No. II APPLICANT			
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	nation the country of the	This person	is also inventor.
COMMON SERVICES AGENCY		Telephone No.	
Trinity Park House South Trinity Road		Facsimile No.	
EDINBURGH EH5 3SE	•		
UNITED KINGDOM		Teleprinter No.	
State (that is, country) of nationality: GB	State (that is, country) o	t residence:	
This person is applicant all designated all designate		United States	the States indicated in
for the purposes of: States X the United S Box No. III FURTHER APPLICANT(S) AND/OR (FURT)		America only	the Supplemental Box
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of cour address indicated by some some applicant's State (that is, country, of residence is indicated below.)	itry. The country of the of residence if no State	This person is:	Iv
FOSTER PETER REYNOLDS			•,
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	.**	X abblicant an	d inventor
5, St. Stephen Street EDINBURGH EH3 5AN	,••	inventor on	ly (If this check-box
		inventor on	
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EDINBURGH EH3 5AN UNITED KINGDOM State (that is country) of nationality: GB	GB	inventor on is marked, do	ly (If this check-box not fill in below.)
EDINBURGH EH3 5AN UNITED KINGDOM State (that is, country) of nationality: GB This person is applicant all designated all designated the United S	GB 1 States except	inventor on is marked, do	ly (If this check-box
EDINBURGH EH3 5AN UNITED KINGDOM State (that is, country) of nationality: GB This person is applicant all designated all designated the United States the United S X Further applicants and/or (further) inventors are indicated of	GB 1 States except	inventor on is marked, do	the States indicated in the Supplemental Box
EDINBURGH EH3 5AN UNITED KINGDOM State (that is country) of nationality: GB This person is applicant all designated all designated to the purposes of: X Further applicants and/or (further) inventors are indicated of the box No. IV AGENT OR COMMON REPRESENTATIVE	GB 1 States except	inventor on is marked, do	the States indicated in the Supplemental Box
EDINBURGH EH3 5AN UNITED KINGDOM State (that is, country) of nationality: GB This person is applicant all designated all designated the United States the United S X Further applicants and/or (further) inventors are indicated of	GB 1 States except	inventor on is marked, do	the States indicated in the Supplemental Box
EDINBURGH EH3 5AN UNITED KINGDOM State (that is, country) of nationality: GB This person is applicant all designated the United Sources the United Sources are indicated of the purposes of: X Further applicants and/or (further) inventors are indicated of Box No. IV ACENT OR COMMON REPRESENTATIVE The person identified below is hereby/has been appointed to act of of the applicant(s) before the competent International Authorities Name and address:	GB d States except	inventor on is marked, do residence: United Scares America only DRRESPONDENCE ent comm	the States indicated in the Supplemental Box
EDINBURGH EH3 5AN UNITED KINGDOM State (that is country) of nationality: GB This person is applicant all designated all designated to the purposes of: X Further applicants and/or (further) inventors are indicated of Box No. IV AGENT OR COMMON REPRESENTATIVE The person identified below is hereby/has been appointed to act of of the applicant(s) before the competent International Authorities Name and address: McCALLUM, William Potter, MacDOUGALL, Done	GB d States except	inventor only inventor only is marked, do residence: United Scares America only DRRESPONDENCE comments ZUKA Jac	the States indicated in the Supplemental Box
EDINBURGH EH3 5AN UNITED KINGDOM State (that is country) of nationality: GB This person is applicant all designated all designated to the purposes of: X Further applicants and/or (further) inventors are indicated of Box No. IV AGENT OR-COMMON REPRESENTATIVE The person identified below is hereby/has been appointed to act of of the applicant(s) before the competent International Authorities Name and address: McCALLUM, William Potter, MacDOUGALL, Dona Tymoteusz: NAISMITH, Robert Stewart; HORNER	GB d States except	inventor only inventor only is marked, do residence: United States America only DRRESPONDENCE comment CZUKA, Jan.	the States indicated in the Supplemental Box Telephone No. 0141 221 5767 Facsimile No.
EDINBURGH EH3 5AN UNITED KINGDOM State (that is country) of nationality: GB This person is applicant all designated all designated to the purposes of: X Further applicants and/or (further) inventors are indicated of Box No. IV AGENT OR COMMON REPRESENTATIVE The person identified below is hereby/has been appointed to act of of the applicant(s) before the competent International Authorities Name and address: McCALLUM, William Potter, MacDOUGALL, Done	GB d States except	inventor only in	the States indicated in the Supplemental Box Telephone No. 0141 221 5767

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
lf none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: (Family name followed by given name: for a legal entity.) I designation. The address must include postal code and name of country. The countries indicated in this Box is the applicant's State (that is, country) of residence of residence is indicated below.) WELCH ANNE GILLIAN 31 The Firs Dalgety Bay FIFE KY11 9UH UNITED KINGDOM	This person is: Implicant only Implicant and inventor Inventor only (If this check-box is marked, do not ill in below)				
State (that is, country) of nationality: GB GB	s. country) of residence:				
This person is applicant all designated all designated States except for the purposes of:					
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Further applicants and/or (further) inventors are indicated on another cont	tinuation sheet.				

Bor No. V DESIGNATION OF STATES						
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Precautionary Designation Statement: in addition to the lesignations made above, the applicant also makes under Rule 4.9(5) at other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filling of a notice specifying that designation and the segment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

•		Sheet No 4		• • • •		
Box No. VI PRIORITY C	CLAIM	Further price	ority claims are indicated	in the Supplemental Box		
Filing date	Number	T	Where earlier application is:			
of earlier application (day/month/year)	of earlier application	national application:	regional application:*			
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Box No. VIII CHECK LIST	: LANGUAGE OF FILE	NG				
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Form PCT/RO/101 (last sheet) (July 1998; reprint January 1999)